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| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br>(use as many sheets as necessary) |  |  |  | Application Number     | 10/020,447        |
|   |  |  |  | Filing Date            | December 18, 2001 |
|   |  |  |  | First Named Inventor   | FLETCHER, Thomas  |
|   |  |  |  | Group Art Unit         | 2121              |
|   |  |  |  | Examiner Name          | Not assigned      |
| Sheet 1 of 1  |  |  |  | Attorney Docket Number | 2207/11269        |

| U.S. PATENT DOCUMENTS |                       |  |                                |   |   |
|-----------------------|-----------------------|--|--------------------------------|---|---|
| Examiner Initials *   | Cite No. <sup>1</sup> | Document Number                            | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited<br>Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|                       |                       | Number - Kind Code <sup>2</sup> (if known) |                                |   |   |
| Min                   |                       | 5,777,491                                  | 07/07/98                       | Hwang   |   |
|                       |                       | 4,570,084                                  | 02/11/86                       | Griffin et al   |   |
|                       |                       | 5,977,789                                  | 11/02/99                       | Gayles  | RECEIVED  |
|                       |                       | 5,568,069                                  | 10/22/96                       | Chow  |   |
|                       |                       | 6,028,454                                  | 02/22/00                       | Elmasry et al   | NOV 20 2002   |

Technology Center 2100

| FOREIGN PATENT DOCUMENTS |                       |  |                                |  |   |
|--------------------------|-----------------------|--|--------------------------------|--|---|
| Examiner Initials *      | Cite No. <sup>1</sup> | Foreign Patent Document  | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|                          |                       | Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup><br>(if known) |                                |  |   |
| Min                      |                       | JP 5-259893 - Furuki<br>(Abstract JP405-259893A)                                       | 10/8/93                        | Furuki   |   |
|                          |                       |  |                                |  |   |
|                          |                       |  |                                |  |   |

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| Examiner Initials *                                | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |  |  | T <sup>2</sup> |
| Min  |                       | Related U.S. Patent Application Serial No. 09/956,903, filed September 21, 2001   |  |  |                |
|  |                       | Related U.S. Patent Application Serial No. 09/892,565, filed June 28, 2001  |  |  |                |
|  |                       | Related U.S. Patent Application Serial No. 09/893,868, filed June 29, 2001  |  |  |                |
|  |                       |   |  |  |                |

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| Examiner Signature | Min | Date Considered | 9/20/02 |
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<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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|                       |                       | Number - Kind Code <sup>2</sup> (if known) |                                |   |   |
| Mar                   |                       | 6,208,907 B1                               | 03/27/2002                     | DURHAM et al  |   |
|                       |                       |  |                                |   |   |
|                       |                       |  |                                |   |   |

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|--------------------------|-----------------------|--|--------------------------------|--|---|
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| Mar  |                       | Yee et al, "Clock-Delayed Domino for Dynamic Circuit Design", IEEE Transactions on Very Large Scale Integration (VLSI) Systems, Vol. 8, No. 4, August 2000, pp 425-430  |  |  |  |
|  |                       | Yee et al, "Clock-Delayed Domino for Adder and Combinational Logic Design", IEEE, 1063-6404/96, pp 332-337, 1996  |  |  |  |
|  |                       | Jung, Perepelitsa, Sobelman, "Time Borrowing in High-Speed Functional Units Using Skew-Tolerant Domino Circuits," Proceedings, IEEE International Symposium on Circuits and Systems, pp. V-641 - V-644, 2000  |  |  |  |
|  |                       | Presentation by Carl Sechen dated March 17, 2000. <b>RECEIVED</b>   |  |  |  |
| ↓  |                       | Taub, <i>Digital Circuits and Microprocessors</i> , pages 205-212, MAR 05 2002<br>Mc-Graw-Hill, 1982  |  |  |  |

|                    |     |                 |        |
|--------------------|-----|-----------------|--------|
| Examiner Signature | Mar | Date Considered | 9/2004 |
|--------------------|-----|-----------------|--------|

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<sup>4</sup> Applicant's unique citation designation number (optional). <sup>5</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 801.04.

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